

Claims

1. A fuel supply device comprising:

a fuel pump;

a common rail which accumulates a high-pressure fuel which is supplied from the fuel pump under pressure; and

a fuel injection valve which is capable of supplying the high-pressure fuel accumulated in the inside of the common rail to an internal combustion engine, the fuel pump including a plurality of high-pressure generating portions whose high-pressure-fuel injection timings are shifted from each other, wherein

the fuel supply device includes a plurality of high-pressure pipes which are provided corresponding to the plurality of high-pressure generating portions and connect fuel outlet ports of the corresponding high-pressure generating portions to the common rail, and a connection pipe which connects at least two or more high-pressure pipes out of the plurality of high-pressure pipes with each other in the vicinity of the corresponding fuel outlet ports.

2. A fuel supply device according to claim 1, wherein the connection pipe is arranged outside the fuel pump.

3. A fuel supply device according to claim 1, wherein the connection pipe is arranged inside the fuel pump.